



WISENT INFRATECH LLP

AN ISO 9001:2015 COMPANY



Direct Rotary Drilling Rigs

Direct Rotary drilling uses a sharp, rotating drill bit to dig down through the Earth's crust. Much like a common hand-held drill, the spinning of the drill bit allows for penetration of even the hardest rock.



TECHNICAL SPECIFICATIONS

MODEL	DR-1500		
RATED CAPACITY	8" (203 mm) holes upto 1500 ft. (457 mtr.) using 2-7/8" (73 mm) OD Drill Pipe. 8"(203 mm) - 10" (254 mm) holes upto 1500 ft. (457 mtr.) using 3-1/2" OD Drill Pipe. Using direct rotary mud circulation method Also available as a Rotary - cum-DTH Combination rig.		
MAST	Construction:	All steel welded tubular construction	
	Height:	42 ft. (12.8 mtr.)	
	Gross load capacity:	70,000 lbs (31818 kgs)	
	Crown Block:	5 Sheaves	
	Raising & lowering:	02 nos. Hydraulic cylinders	
DRILL HEAD / ROTARY TABLE	Type:	Drill head	
	Pull Down:	16,000 lbs (7272 kg)	
	Pull Down stroke :	30" (762 mm)	
	Opening:	3" (76.2 mm), 3-1/2" (89 mm), or 4-1/2" (114 mm)	
	Drive:	Torque tube	
	Clutch:	Dog Clutch	
	Retraction:	Hydraulic 21" (533.4 mm)	
DRAW WORKS		Barrel dia x length	Single line pull
	Hoisting Drum	7" (178 mm) x 10-3/8" (263.5 mm)	15000 LBS (6818 KG)
	Sand Reel	7" (178 mm) x 10-3/8" (263.5 mm)	15000 LBS (6818 KG)
	Clutch	Multi disc friction type	
	Brake	High leverage mechanical	
	Drive	Multi link roller chain	
	MUD PUMP		Standard
Model		S-200	S-150
Bore x Stroke		6" (152 mm) x 8" (203 mm)	5-1/2" (140 mm) x 6" (152 mm)
Max. Strokes / Min.		100	110
Discharge & Pressure		320 gpm (1210 lpm)	205 gpm (775 lpm)
At Max. Stroke / Min.		284 psi (19.9 kg/cm ²)	256 psi (17.9 kg/cm ²)
Clutch		Positive Contact	Positive Contact
Drive		V Belt/ Chain	V Belt/ Chain
HYDRAULIC SYSTEM	Pump Type:	Fixed displacement vane type	
	Discharge & Pressure:	21 GPM (80 lpm) @100 psi (7 kg/cm ²)	
	Drive	Joint	
PRIME MOVER	Truck Mounted Rig / Trailer mounted Rig		
TRANSMISSION	5 Forward & 1 Reverse		
KELLY	3-3/8" (85.7 mm) dia. x 28 ft. round three fluted Kelly		
LEVELLING JACKS	04 nos. Mechanical/04 nos. Hydraulic Jacks		
CONTROL	Centralised		
Note: As part of our efforts to continuously improve our products, we reserve the right to change the specifications/design etc. without any notification/obligation.			

MODEL	DR-2000		
RATED CAPACITY	8" (203 mm) to 12" (304.8 mm) hole upto 2000 ft. with 2-7/8" (73 mm) OD Drill Pipe and upto 1800 ft. (548 mtr.) with 3-1/2" OD Drill Pipe using direct rotary mud circulation method. Also available as a Rotary - cum-DTH Combination rig.		
MAST	Construction:	Welded tubular	
	Height:	42 ft. (12.8 mtr.)	
	Gross load capacity:	90,000 lbs (40800 kgs)	
	Crown Block:	5 Sheaves	
	Raising & lowering:	02 nos. Hydraulic cylinders	
DRILL HEAD / ROTARY TABLE	Type:	Drill head	
	Pull Down:	16,000 lbs (7272 kg)	
	Pull Down stroke :	30" (762 mm)	
	Opening:	3" (76.2 mm), 3-1/2" (89 mm), or 4-1/2" (114 mm)	
	Drive:	Torque tube	
	Clutch:	Dog Clutch	
	Retraction:	Hydraulic 21" (533.4 mm)	
DRAW WORKS		Barrel dia x length	Single line pull
	Hoisting Drum	7" (178 mm) x 10-3/8" (263.5 mm)	15963 LBS (7256 KG)
	Sand Reel	7" (178 mm) x 10-3/8" (263.5 mm)	15963 LBS (7256 KG)
	Clutch	Multi disc type mech. Type or pneumatic	
	Brake	High leverage mechanical or pneumatic	
	Drive	Multi link roller chain	
MUD PUMP		Standard	Optional
	Model	S-200	S-250
	Bore x Stroke	6" (152 mm) x 8" (203 mm)	10" (254 mm) x 7-1/2" (190.5 mm)
	Max. Strokes / Min.	100	85
	Discharge & Pressure	320 gpm (1210 lpm)	487 gpm (1840 lpm)
	At Max. Stroke / Min.	284 psi (19.9 kg/cm ²)	256 psi (17.9 kg/cm ²)
	Clutch	Positive Contact	Positive Contact
	Drive	V Belt/ Chain	V Belt/ Chain
HYDRAULIC SYSTEM	Pump Type:	Fixed displacement vane type	
	Discharge & Pressure:	21 GPM (80 lpm) @100 psi (7 kg/cm ²)	
	Drive	Joint	
PRIME MOVER	Truck Mounted Rig / Trailer mounted Rig		
TRANSMISSION	5 Forward & 1 Reverse		
KELLY	3-3/8" (85.7 mm) dia. x 28 ft. round three fluted Kelly		
LEVELLING JACKS	04 nos. Mechanical/04 nos. Hydraulic Jacks		

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